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Globalization and national accounts: accounting for global production

2008 Global manufacturing production: Main results for Mexico

Note prepared by the General Directorate of Economic Statistics of National Institute of Statistics, Geography and Informatics of Mexico

Summary

This paper presents the work of the National Institute of Statistics, Geography and Informatics on measuring activities of global manufacturers in Mexico. The work was accomplished in the frame of a project on rebasing the national accounts of Mexico to the year 2008 and the development of the Supply and Use Tables and Input-Output Tables. The results are presented in supplementary Supply and Use tables for 2008, tabulated by industry under the North American Industry Classification System 2007 (NAICS 2007). The paper will introduce the methodology and main results in measuring of global manufacturing production and the value added content in global manufacturing exports.

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I. Introduction

1. Nowadays, official statistics must address new issues such as the emergence of new practices due to the emerging of new forms of entrepreneurial management. Production arrangements have gradually been modified and goods are not produced in just one country any more, while exports increasingly incorporate intermediate inputs provided from abroad, complicating the measurement of the real contribution of exports and value added to the economy, either in terms of income or employment.

2. Acknowledging the need of new basic data and of new forms of measurement in derived statistics, the National Institute of Statistics and Geography (INEGI, Spanish acronym) presented for the first time the economic activity of global manufacturing in supplementary Supply-Use tables for the year 2008. The data was presented by activity using the 2007 North American Industrial Classification System (2007 NAICS).

3. The work was accomplished in the frame of a project for rebasing the national accounts of Mexico to the base year 2008 and elaboration of Supply-Use Tables (SUT) and the Input-Output Tables (IOT). The methodological documents and the results about the Value Added Content of Global Manufacturing in Exports (VACGME) are publicly available. The purpose is to provide better information and measurement of the contribution of the manufacturing sector exports and the value added it generates in the economy, both in terms of income and employment.

4. Sections II and III describe general and methodological aspects about the treatment of the Global Manufacturing Production (GMP) and the measurement of VACGME. Section IV presents the main findings. More detailed results and tables are presented in the annex.

II. General aspects

5. The objective of the project was to measure the value of Global Manufacturing Production, the Value Added Content in Global Manufacturing Exports (VACGME) and the Gross Value Added that global manufacturing activities generate in the economy. The project focused on the manufacturing sector and the geographical coverage was at national level. The data refer to the year 2008.

6. The information published in this document presents the results from the measurement of VACGME for the manufacturing branches that participate in Global Value Chains (GVC). It also shows their contribution to the value added generated by the Mexican economy.

III. Methodological aspects

7. This section will focus on the definition of VACGME and the calculation methods. The VACGME is the value added contributed by an economy to the total value of exported products, which are part of global production processes i.e. are manufactured in different countries. These activities are part of GVC.

8. For the total economy VACGME could be measured in two ways:

- Method 1: Adding the Intermediate Consumption (IC) of Domestic Origin and the Gross Value Added of global manufacturing.

- Method 2: The difference between Exports and Imports, of global manufacturing.

9. Generally speaking there are two types of companies involved in global manufacturing: unaffiliated firms participating in GVC and companies that are part of Multinational Enterprises (MNE). Taking into account the available statistical information and infrastructure, three main criteria were established to identify these companies:

(a) Identify the firms whose inputs are provided mainly from abroad and whose outputs are for export markets (their imports account for a minimum of 2/3 of the value of their exports).

(b) Locate the firms with major participation of foreign capital, because these could be controlled by a foreign headquarters and/or participate in GVC.

(c) Identify the mainly exporting firms (not considered in the previous two points), also the type of good exported, where the intermediate goods are defined as a part of the GVC.

10. It has to be emphasized that different data sources have to be incorporated in order to construct a database of companies engaged in global manufacturing. The company incorporation register and the federal tax records were used to establish a link between the customs records and the respective statistical survey data on manufacturing establishments in order to obtain the following:

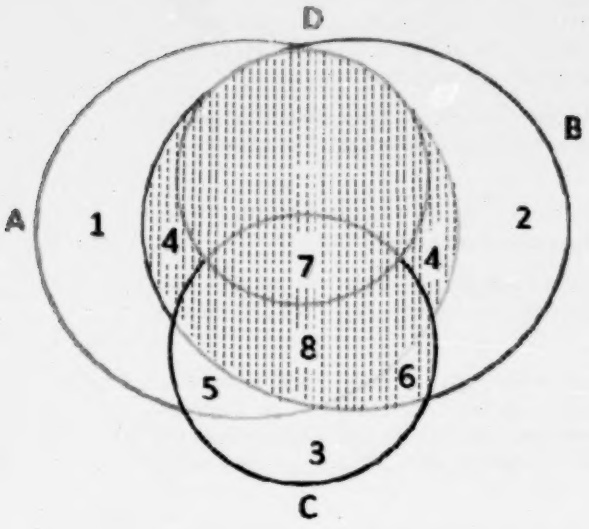
- Foreign Trade Statistics that allow identification of the companies meeting the established criteria and provide information for measuring the VACGME.
- Identify the 2007 NAICS codes assigned by the economic census for the economic production units

A. Implementation of the criteria

11. Figure 1 presents the merchandise transactions between resident economic units and abroad, also the types of units that realize such transactions. It allows illustrating the procedure used to identify the firms that meet the three criteria listed above.

12. The figure shows the economic units that import goods in the domestic economy (set A), and the economic units that export goods to foreign markets (set B).

Figure 1.
Transactions and Manufacturing Firms



Where:
A = importers
1 = units importers output for domestic market
B = exporters
2 = units using domestic inputs and output for exporting (not global)
C = economic units major foreign capital participation
3 = economic units major foreign capital participation engaged in non-manufacturing sectors
D = economic units using imported inputs (import inputs accounts for a minimum of 2/3 of their exports) and exporting output
4 = other economic units exporting output (imported inputs is less than 2/3 of their exported production)
5 = economic units with major foreign capital participation, importers only
6 = economic units with major foreign capital participation, exporters only
7 = economic units with major foreign capital participation, using imported inputs (using imported inputs above 2/3 of the value of their exported production) and exporting output
8 = economic units with major foreign capital participation, using imported inputs (using imported inputs less than 2/3 of the value of their exported production) and exporting output

Global Manufacturing Output

B. Procedure 1 (first criterion)

13. The first step was to identify the economic units that require foreign inputs (their import content accounts for a minimum of 2/3 of the value of their exports) and whose output is destined for exports. This set of economic units is shown in Figure 1 with the letter D.

14. Each tariff code for imports and exports is linked to the corresponding NAICS classes for goods using the correlation table TIGIE-2007 NAICS. The foreign trade data was also linked to the 2009 economic census (EC) and the industrial surveys using the NAICS classification of economic units. This procedure allowed the development of a matrix of global manufacturing output by origin and destination.

15. Using information on the output and the intermediate consumption (IC) by origin, INEGI developed production accounts for global manufacturing activities, which are technically and economically consistent with the foreign trade balance of global manufacturing. The production accounts presented information on gross value of production, IC of domestic and imported origin and gross value added (GVA). Further, consistency analysis for each component of GVA was carried out: the compensation of employees, the gross operating surplus (GOS) and the jobs by economic activity.

16. For measuring the VACGME it is important to identify and separate the IC of domestic origin by type of good and by economic activity. An analysis of the expenditure variables reported in the responses to supplementary questions on raw materials and the detailed questionnaires of the 2009 EC were used for this procedure.

17. Finally an estimate of both the trade and transport margins and the taxes and subsidies on products (where applicable) was done, in order to arrive at value added at basic prices and to link the supplementary tables on supply-use balance of GMP with the main 2008 SUT.

C. Procedure 2 (criteria 2 and 3)

18. This procedure was used to identify the remaining firms which are part of the GVC. The firms that have major participation of foreign capital were considered for this purpose (identified in Figure 1 with the letter C).

19. The analysis of foreign trade transactions identified the economic units with foreign capital participation that destine their production for exports (segments 6, 7 and 8 of Figure 1). It should be highlighted that for the firms showed in 6 and 8 the share of imported inputs is up to 2/3 of the value of their exported production, while for those in 7 the share is above 2/3.

20. For this subset of firms, assumed to be part of GVC, the export values (equivalent to production at basic prices) were measured. The 2008 IOT, specifically the Technical Coefficients Matrix, was used estimate the value of the required inputs of domestic and imported origin and their components of GVA, taxes and subsidies, trade and transport margins and taxes and subsidies of products. Based on this information the respective production accounts were integrated in the 2008 SUT and linked with the supplementary tables.

21. The integration of the results in the SUT required obtaining the subtotals of the production components (intermediate consumption and value added) for global manufacturing industry.[1]

D. Global Manufacturing indicators

22. In order to measure the impact of the global manufacturing activities on the economy a number of indicators were presented. The methodology is introduced below and the detailed results for the manufacturing brunches are presented in table A4 of the Annex.

- Value Added Content of Global Manufacturing Exports (VACGME) in total production

23. The indicator measures the percentage share of VACGME in the Total Production by economic activity branch for a given period expressed at base year prices. It is measured by the formula:

$$VACGME(\%Mp) = \left[\left(\frac{VACGME}{MP}\right)\right] * 100$$

Where:
VACGME (%Mp): VACGME as percentage of Manufacturing Production
VACGME: Value Added Content of Global Manufacturing for Exports.
MP: Manufacturing Production.

- Value Added Content of Global Manufacturing for Exports (VACGME) as proportion to Global Manufacturing Production (GMP)

24. This indicator measures the share of VACGME in to global manufacturing production by economic activity branch for a given period at a base year price. This indicator is calculated with the formula:

[1] The results are presented in the Addendum "Supplementary Global Manufacturing 2008 Supply-Use Tables".

$$VACGME(\%GMP) = \left[\left(\frac{VACGME}{GMP}\right)\right] * 100$$

Where:
VACGME (%GMP): Value Added Content of Global Manufacturing for Exports as proportion of Global Manufacturing Production (GMP).
VACGME: Value Added Content of Global Manufacturing for Exports.
GMP: Global Manufacturing Production.

- Total Value Added Content of Global Manufacturing Exports (VACGME) of an industry in total Global Manufacturing Export (EGM)

25. This indicator measures the percentage share of the VACGME by economic activity branch in the total VACGME, for a given period, at base year prices. The VACGME composition by branch allows quantifying the importance of each branch as generator of VA within the context of the GM. This indicator is calculated with the formula:

$$VACGME_i(\%VACGME_T) = \left[\left(\frac{VACGME_i}{VACGME_T}\right)\right] * 100$$

Where:

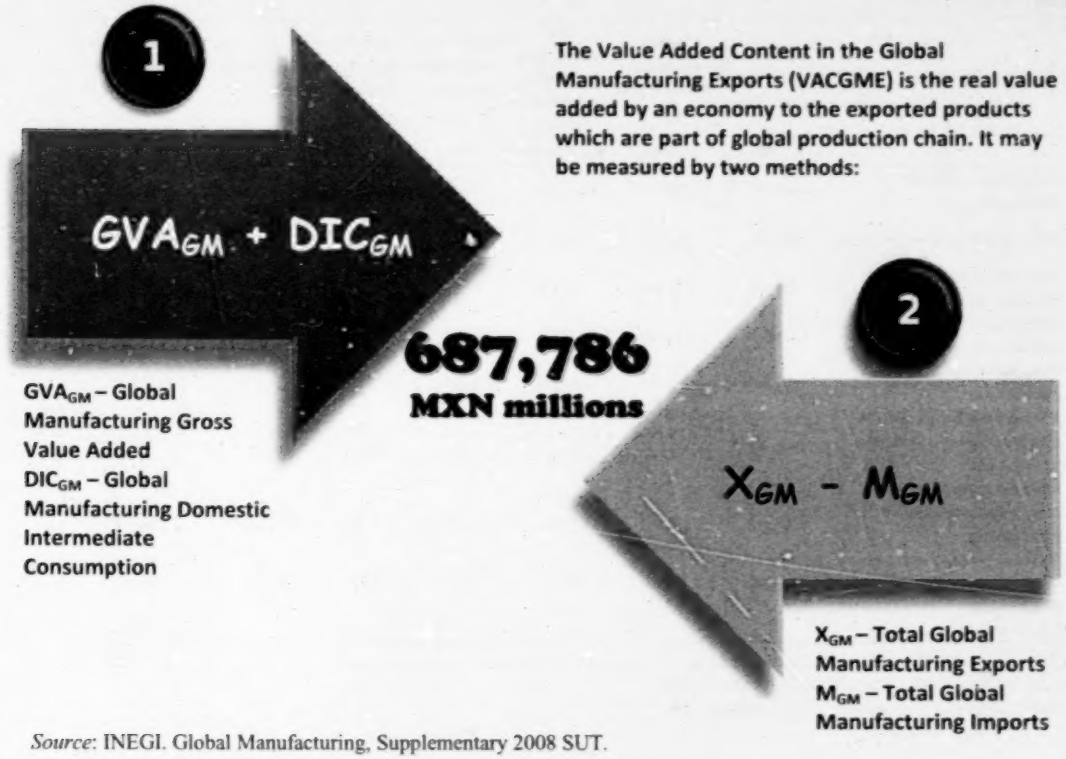
VACGMEi (%VACGMET): Value Added Content of Global Manufacturing for Exports by economic activity branch as share of Total VACGME
VACGMEi: Value Added Content of Global Manufacturing for Exports by NAICS economic activity branch
VACGMET: Total Value Added Content of Global Manufacturing for Exports

IV. Main Results

26. The two methods that can be used to estimate VACGME were introduced in paragraph 8. Figure 2 shows the results from the application of both methods for the year 2008.

27. Table 1 shows the branches of the Mexican economy where global manufacturing is concentrated and the contribution of Mexico to global value chains. The most prominent are Automobile and Trucks Manufacturing (3361), Motor Vehicles Parts Manufacturing (3363) and Electronic Components Manufacturing (3344).

Figure 2
Calculations of VACGME in Mexico, 2008


1
$GVA_{GM} + DIC_{GM}$
GVA_{GM} – Global Manufacturing Gross Value Added
DIC_{GM} – Global Manufacturing Domestic Intermediate Consumption
687,786
MXN millions
2
$X_{GM} - M_{GM}$
X_{GM} – Total Global Manufacturing Exports
M_{GM} – Total Global Manufacturing Imports
The Value Added Content in the Global Manufacturing Exports (VACGME) is the real value added by an economy to the exported products which are part of global production chain. It may be measured by two methods:

Source: INEGI. Global Manufacturing, Supplementary 2008 SUT.

Table 1

Global Manufacturing: main industries according to VACGME, 2008

(millions Mexican pesos)

Branch	Description	*Manufacturing Activities Output at basic prices	Global Manufacturing Output at basic prices	Total Intermediate Consumption at purchaser's prices	Intermediate Consumption Domestic Origing	Intermediate Consumption Imported Origing	Gross Value Added	Value Added Content in the Global Manufacturing for Exports
		P	GMO	IC = ICD + ICM	ICD	ICM	GVA = GMO - IC	VACGME = GVA + ICD
3361	Automobiles and Trucks Manufacturing	423,471	262,548	186,439	96,597	89,842	76,109	172,706
3363	Motor vehicle parts manufacturing	484,080	293,259	244,072	48,737	195,334	49,187	97,925
3344	Electronic components manufacturing	226,498	221,988	202,596	40,256	162,341	19,392	59,647
3341	Computing and peripheral equipment manufacturing	156,588	123,831	112,512	10,637	101,876	11,319	21,956
3343	Audio and video equipment manufacturing	181,809	175,033	160,363	4,740	155,623	14,670	19,410
3391	Non electronic equipment manufacturing and consumables for medical use, dental and laboratory and ocular articles	74,276	63,772	50,143	5,452	44,691	13,629	19,081
3342	Communications equipment manufacturing	144,357	132,891	122,019	5,235	116,784	10,872	16,107
3353	Electric power generation and distribution equipment manufacturing	76,629	41,585	34,064	7,764	26,300	7,522	15,286
	Other Branches							265,668
	Total							687,786

*Includes the value of Global Manufacturing Output (GMO)

Source: INEGI. Global Manufacturing, Supplementary 2008 SUT

28. The information shown in table A1 of the annex presents the global manufacturing accounts for the 86 economic activity branches of the manufacturing industry participating in GVC and their contribution to the generation of the GVA in the Mexican economy.

29. Table 2 presents the global manufacturing input –output coefficients for the economic branches with major contribution to the Mexican economy resulting from the application of Method 1.

Table 2
Input-Output Relations of Global Manufacturing

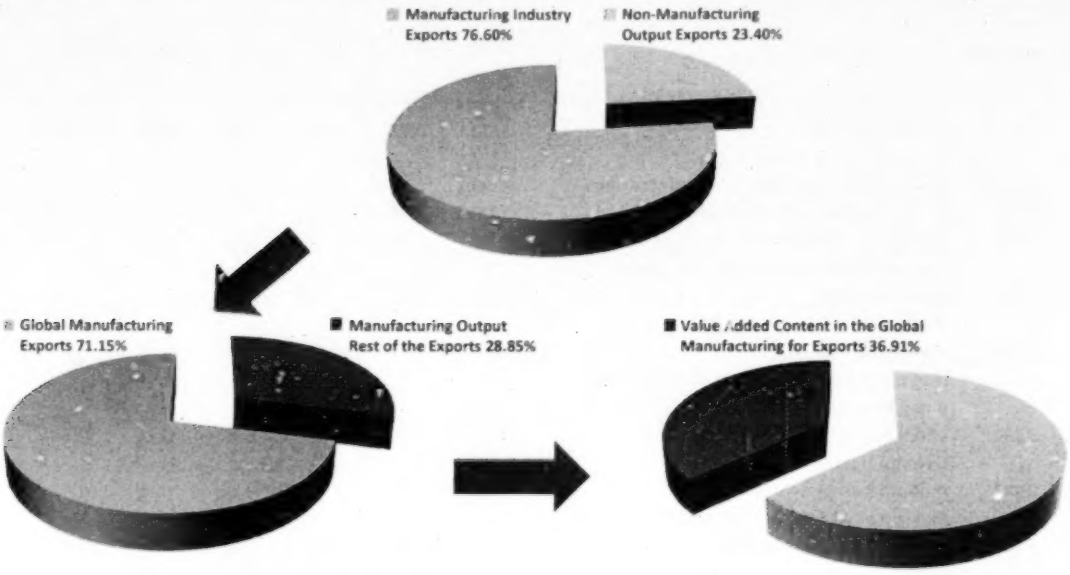
Branches		GMO	IC	ICD	ICM	GVA	VACGME
	Total economy	**1.00**	**0.79**	**0.16**	**0.63**	**0.21**	**0.37**
3361	Automobiles and Trucks Manufacturing	1.00	0.71	0.37	0.34	0.29	0.66
3363	Motor vehicle parts manufacturing	1.00	0.83	0.17	0.67	0.17	0.33
3344	Electronic components manufacturing	1.00	0.91	0.18	0.73	0.09	0.27
3341	Computing and peripheral equipment manufacturing	1.00	0.91	0.09	0.82	0.09	0.18
3343	Audio and video equipment manufacturing	1.00	0.92	0.03	0.89	0.08	0.11
3391	Non electronic equipment manufacturing and consumables for medical use, dental and laboratory and ocular articles	1.00	0.79	0.09	0.70	0.21	0.30
3342	Communications equipment manufacturing	1.00	0.92	0.04	0.88	0.08	0.12
3353	Electric power generation and distribution equipment manufacturing	1.00	0.82	0.19	0.63	0.18	0.37
	Other Branches	1.00	0.66	0.14	0.52	0.34	0.48

GMO = Global Manufacturing Output
IC = Intermediate Consumption
ICD = Intermediate Consumption Domestic Origin
ICM = Intermediate Consumption Imported
GVA = Gross Value Added
VACGME = Value Added Components of Global Manufacturing for Exports
Source: INEGI. Global Manufacturing, Supplementary 2008 SUT

30. VACGME is obtained by adding up the Domestic Intermediate Consumption and the Gross Value Added (that is, 0.16+0.21= 0.37 for total economy).

31. The contribution of manufacturing and global manufacturing to the total export are presented in figure 3. 76.6% of the total exports of goods and services pertain to the units in the Manufacturing Industry, which highlights its importance in Mexico. Global manufacturing export represents 71.1% in the total manufacturing exports. The value added of the Mexican economy to the global manufacturing exports is 36.9%.

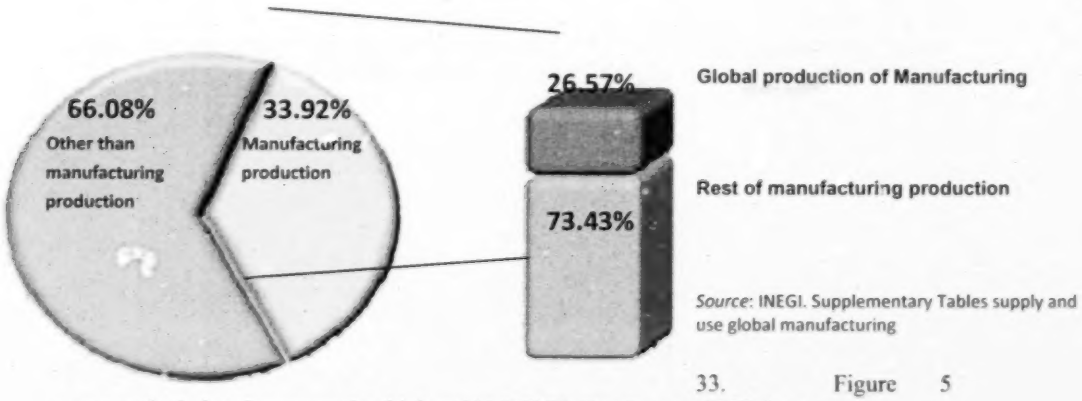
Figure 3
Manufacturing Exports and VACGME, 2008 (Percentage)


Manufacturing Industry Exports 76.60%
Non-Manufacturing Output Exports 23.40%
Global Manufacturing Exports 71.15%
Manufacturing Output Rest of the Exports 28.85%
Value Added Content in the Global Manufacturing for Exports 36.91%

Source: INEGI. Global Manufacturing, Supplementary 2008 SUT

32. Figure 4 presents the composition of the economy's total production. 33.9% pertains to manufacturing production, out of which 26.6% are coming from units participating in GVC. This emphasizes the role of Mexican companies (inputs provider, generator of IPP, design, assembling, etc.) in the global manufacturing processes spread in several countries.

Figure 4
Composition of total production in Mexico, 2008 (percentage)

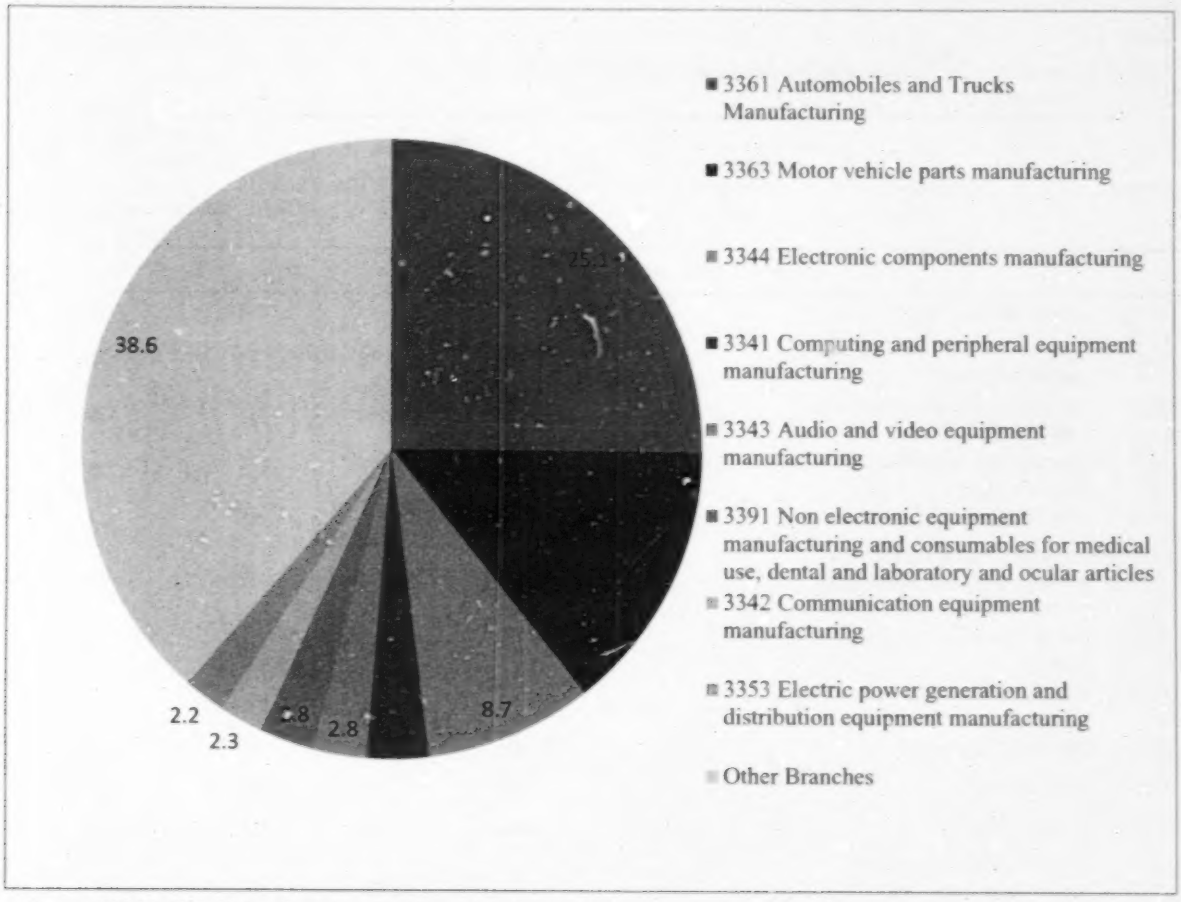


33. Figure 5 presents the industries generating highest VACGME. For the year 2008 these are:

- 3361 Automobile and Trucks Manufacturing 25,1%
- 3363 Motor Vehicles Parts Manufacturing 14.2%

- 3344 Electronic Components Manufacturing 8.7%

Figure 5
VACGME composition, 2008
(percentages)



Source: INEGI. Global Manufacturing, Supplementary 2008 SUT

Annex I

Detailed results

Table A1

Global Manufacturing Production, by economic activity branch, 2008

(millions of pesos)

Branch	*Description*	*Global Manufacturing Production at basic prices*	*Imports CIF*	*Intermediate Consumption domestic origin*	*Gross Value Added*	*Value Added Content of Global Manufacturing of Exports*
		A = B + C + D	**B**	**C**	**D**	**E = C + D**
3111	Production of animal feed	30	9	16	4	20
3112	Grains and seeds mills and oils and fats obtaining	58	29	14	15	28
3113	Production of sugar, chocolate, candies and similar	5 208	3 669	788	751	1 539
3114	Canned fruits, vegetables and prepared foods	1 347	572	420	354	775
3115	Manufacture of dairy products	1	NS	1	NS	1
3116	Slaughter, packaging and processing of meat from cattle, poultry and other food animals	323	275	18	31	48
3117	Preparation and packaging of seafood	672	493	123	56	179
3118	Manufacture of bakery and tortillas	2	1	NS	NS	1
3119	Other food industries	4 076	2 819	547	710	1 257
3121	Beverage Industry	2 544	1 695	622	228	849
3122	Tobacco Industry	3 270	2 556	545	168	713
3131	Preparation and spinning of textile fibers, yarns and manufacturing	2 705	1 215	907	583	1 490
3132	Textile manufacturing	1 812	955	485	371	856
3133	Finishing of textiles and coated fabrics manufacturing	3 023	2 108	467	448	915
3141	Manufacture of carpets, white and similar	2 081	1 351	329	402	730
3149	Manufacture of other textiles, except apparel	3 103	1 587	601	915	1 516
3151	Manufacture of knitted garments	2 978	1 828	337	813	1 150
3152	Manufacture of wearing apparel	32 559	20 924	3 524	8 112	11 635
3159	Manufacture of clothing accessories and other apparel not elsewhere classified	569	477	32	60	92
3161	Tanning and dressing of leather and fur	694	509	95	90	185
3162	Manufacture of footwear	670	421	152	98	250

Branch	*Description*	*Global Manufacturing Production at basic prices*	*Imports CIF*	*Intermediate Consumption domestic origin*	*Gross Value Added*	*Value Added Content of Global Manufacturing of Exports*
		A = B + C + D	**B**	**C**	**D**	**E = C + D**
3169	Manufacture of other products of leather, leather and substitutes materials	2 081	1 313	384	384	768
3211	Sawing and wood preservation	6	3	2	2	4
3212	Manufacture of wood laminated and bonded	33	27	4	2	6
3219	Manufacture of other products of wood	1 137	661	196	280	476
3221	Manufacture of pulp, paper and paperboard	871	257	371	244	615
3222	Manufacture of paper and paperboard	6 843	5 062	733	1 048	1 781
3231	Printing and related industries	3 149	2 126	332	692	1 024
3241	Manufacture of petroleum and coal products	9	1	5	4	9
3251	Manufacture of basic chemical products	9 034	3 602	3 625	1 807	5 432
3252	Manufacture of synthetic resins and rubbers, and fibers	5 538	2 255	2 201	1 082	3 283
3253	Manufacture of fertilizers, pesticides and other agrochemicals	961	595	195	171	366
3254	Pharmaceutical Manufacturing	13 112	11 097	1 104	911	2 015
3255	Manufacture of paints, coatings and adhesives	605	220	218	167	385
3256	Manufacture of soaps, cleaners, and toilet preparations	1 999	759	702	539	1 241
3259	Manufacture of other chemicals	3 393	1 089	1 279	1 025	2 305
3261	Manufacture of plastic products	23 448	16 467	3 342	3 638	6 980
3262	Manufacture of rubber products	8 148	5 178	1 682	1 288	2 970
3271	Manufacture of products based on clays and refractory minerals	6 556	1 814	2 454	2 288	4 742
3272	Manufacture of glass and glass products	3 101	997	1 201	903	2 104
3273	Manufacture of cement and concrete products	501	389	40	72	112
3274	Manufacture of lime, gypsum and plaster products	4	NS	2	2	4
3279	Manufacture of other products made of non-metallic minerals	1 592	569	522	502	1 024
3311	Manufacture of basic iron and steel	10 005	2 351	4 375	3 280	7 655
3312	Manufacture of iron and steel products	5 381	3 573	1 259	549	1 808
3313	Basic aluminum industry	483	135	312	36	348

Branch	*Description*	*Global Manufacturing Production at basic prices*	*Imports CIF*	*Intermediate Consumption domestic origin*	*Gross Value Added*	*Value Added Content of Global Manufacturing of Exports*
		A = B + C + D	**B**	**C**	**D**	**E = C + D**
3314	Industries of nonferrous metals, except aluminum	14 635	10 383	3 052	1 200	4 252
3315	Die casting of metal parts	1 767	782	524	461	985
3321	Manufacture of forged and stamped metal products	1 028	907	61	60	122
3322	Manufacture of non-power hand tools and metal kitchen utensils	2 715	1 516	867	332	1 199
3323	Manufacture of metal structures and products blacksmith	2 387	1 018	778	591	1 369
3324	Manufacturing boilers, tanks and metal containers	4 788	3 183	717	888	1 604
3325	Manufacture of fittings and locks	11 167	6 716	1 997	2 454	4 451
3326	Manufacture of wire, wire products and springs	1 742	355	800	587	1 387
3327	Metalworking and manufacturing screws	301	94	110	97	207
3328	Coatings and metal finishing	1 096	971	60	65	125
3329	Manufacture of other fabricated metal products	24 004	16 693	3 227	4 084	7 311
3331	Manufacture of agricultural machinery and equipment, construction and mining and quarrying	11 165	6 250	2 853	2 062	4 915
3332	Manufacture of machinery and equipment for manufacturing industries, except metalworking	1 545	1 030	152	364	515
3333	Manufacture of machinery and equipment for trade and services	860	497	145	217	362
3334	Manufacture of air conditioning, heating, and cooling for industry and commerce	2 044	1 160	514	370	884
3335	Manufacture of machinery and equipment for the metalworking industry	149	49	42	57	99
3336	Manufacture of internal combustion engines, turbines and transmissions	11 686	5 509	2 953	3 223	6 176
3339	Manufacture of other machinery and equipment for general industry	10 320	6 150	1 792	2 378	4 170
3341	Manufacture of computers and peripheral equipment	123 831	101 876	10 637	11 319	21 956
3342	Manufacture of communication equipment	132 891	116 784	5 235	10 872	16 107

Branch	*Description*	*Global Manufacturing Production at basic prices*	*Imports CIF*	*Intermediate Consumption domestic origin*	*Gross Value Added*	*Value Added Content of Global Manufacturing of Exports*
		A = B + C + D	**B**	**C**	**D**	**E = C + D**
3343	Manufacture of audio and video equipment	175 033	155 623	4 740	14 670	19 410
3344	Electronics Components Manufacturing	221 988	162 341	40 256	19 392	59 647
3345	Manufacture of measuring instruments, control, navigation, and electronic medical equipment	16 954	12 034	1 500	3 421	4 920
3346	Manufacturing and Reproducing Magnetic and Optical Media	9 197	7 930	509	759	1 267
3351	Manufacture of lighting fixtures	9 570	6 395	1 634	1 542	3 176
3352	Manufacture of electrical household appliances	28 722	22 069	3 300	3 353	6 652
3353	Manufacture of generation and distribution of electricity equipment	41 585	26 300	7 764	7 522	15 286
3359	Manufacture of other electrical equipment and fittings	36 116	26 375	4 068	5 672	9 740
3361	Manufacture of cars and trucks	262 548	89 842	96 597	76 109	172 706
3362	Manufacture of bodies and trailers	7 070	4 296	1 527	1 248	2 775
3363	Manufacture of motor vehicles parts	293 259	195 334	48 737	49 187	97 925
3364	Aerospace equipment manufacturing	7 737	5 450	978	1 309	2 287
3365	Manufacture of railway equipment	2 272	1 283	556	432	988
3366	Manufacture of ships	1 138	685	189	264	453
3369	Manufacture of other transport equipment	166	142	13	11	24
3371	Manufacture of furniture, other than office and bookshelf	3 368	1 816	680	873	1 552
3372	Manufacture of office furniture and shelving	1 623	845	520	258	778
3379	Manufacture of mattresses, blinds and curtain rods	3 363	2 130	490	743	1 233
3391	Manufacture of non-electronic equipment and disposables medical, dental and laboratory use, and ophthalmic articles	63 772	44 691	5 452	13 629	19 081
3399	Other manufacturing industries	32 998	24 316	3 648	5 034	8 682
4311	Commerce	74 661	NA	NA	74 661	74 661
4811	Scheduled air transport	293	NA	NA	293	293
4812	Non-scheduled air transport	59	NA	NA	59	59
4821	Railway Transport	1 591	NA	NA	1 591	1 591
4831	Maritime Transport	847	NA	NA	847	847

Branch	*Description*	*Global Manufacturing Production at basic prices*	*Imports CIF*	*Intermediate Consumption domestic origin*	*Gross Value Added*	*Value Added Content of Global Manufacturing of Exports*
		A = B + C + D	**B**	**C**	**D**	**E = C + D**
4832	Inland waterways transport	1	NA	NA	1	1
4841	Motor general freight	29 385	NA	NA	29 385	29 385
4851	Urban public transport and suburban passenger fixed route	NS	NA	NA	NS	NS
4852	Foreign collective passenger transport fixed route	1	NA	NA	1	1
4853	Taxi and Limousine Service	NS	NA	NA	NS	NS
4854	School and personnel transport	NS	NA	NA	NS	NS
4855	Bus rental with driver	NS	NA	NA	NS	NS
4859	Other passenger land transport	1	NA	NA	1	1
4862	Natural gas transmission pipeline	483	NA	NA	483	483
4869	Pipeline of other products	294	NA	NA	294	294
4871	Land Sightseeing Transportation	1	NA	NA	1	1
4872	Tourist Water Transport	NS	NA	NA	NS	NS
4879	Another tourist transport	NS	NA	NA	NS	NS
4881	Services related to air transport	NS	NA	NA	NS	NS
4882	Services related to railway transport	NS	NA	NA	NS	NS
4883	Services related to water transport	228	NA	NA	228	228
4884	Services related to road transport	5	NA	NA	5	5
4885	Intermediary services for freight transport	1 472	NA	NA	1 472	1 472
	TOTAL	**1 863 639**	**1 175 853**	**296 234**	**391 552**	**687 786**

Conclusion

Note:

NS = No significant. Number by rounding misses the minimum unit (<0.5) to register.

NA = Not applicable. No economic significance data.

ND = Unavailable. No existing data.

The sum may not add to totals due to rounding.

Source: INEGI. Global Manufacturing, Supplementary 2008 SUT

Table A2

Gross Value Added of Global Manufacturing, 2008

(millions of pesos)

Branch	*Description*	*Gross Value Added*	*Total compensation of employees*	*Net Taxes of Subsidies on Production*	*Gross Operating Surplus*
		A = B + C + D	**B**	**C**	**D**
3111	Production of animal feed	4	NS	NS	4
3112	Grains and seeds mills and oils and fats	15	2	NS	12
3113	Production of sugar, chocolate, candies and similar	751	307	11	432
3114	Canned fruits, vegetables and prepared foods	354	174	5	175
3115	Manufacture of dairy products	NS	NS	NS	NS
3116	Slaughter, packaging and processing of meat from cattle, poultry and other food animals	31	30	NS	1
3117	Preparation and packaging of seafood	56	36	2	18
3118	Manufacture of bakery and tortillas	NS	NS	NS	NS
3119	Other food industries	710	186	6	518
3121	Beverage Industry	228	174	9	44
3122	Tobacco Industry	168	55	6	107
3131	Preparation and spinning of textile fibers, yarns and manufacturing	583	328	8	247
3132	Textile manufacturing	371	142	6	223
3133	Finishing of textiles and coated fabrics manufacturing	448	323	11	114
3141	Manufacture of carpets, white and similar	402	277	5	120
3149	Manufacture of other textiles, except apparel	915	629	8	279
3151	Manufacture of knitted garments	813	724	11	77
3152	Manufacture of wearing apparel	8 112	4 164	127	3 821
3159	Manufacture of clothing accessories and other apparel not elsewhere classified	60	52	1	8
3161	Tanning and dressing of leather and fur	90	37	2	51
3162	Manufacture of footwear	98	85	1	11
3169	Manufacture of other products of leather, leather and substitutes materials	384	231	5	148
3211	Sawing and wood preservation	2	2	NS	1
3212	Manufacture of wood laminated and bonded	2	2	NS	1
3219	Manufacture of other products of wood	280	226	4	50
3221	Manufacture of pulp, paper and paperboard	244	46	3	195
3222	Manufacture of paper and paperboard	1 048	571	14	463
3231	Printing and related industries	692	362	12	319
3241	Manufacture of petroleum and coal products	4	1	NS	3

Branch	*Description*	*Gross Value Added*	*Total compensation of employees*	*Net Taxes of Subsidies on Production*	*Gross Operating Surplus*
		A = B + C + D	**B**	**C**	**D**
3251	Manufacture of basic chemical products	1 807	314	17	1 476
3252	Manufacture of synthetic resins and rubbers, and fibers	1 082	163	6	912
3253	Manufacture of fertilizers, pesticides and other agrochemicals	171	34	2	135
3254	Pharmaceutical Manufacturing	911	217	31	664
3255	Manufacture of paints, coatings and adhesives	167	37	2	128
3256	Manufacture of soaps, cleaners, and toilet preparations	539	126	5	408
3259	Manufacture of other chemicals	1 025	267	11	748
3261	Manufacture of plastic products	3 638	2 260	85	1 294
3262	Manufacture of rubber products	1 288	652	19	617
3271	Manufacture of products based on clays and refractory minerals	2 288	1 218	12	1 058
3272	Manufacture of glass and glass products	903	367	9	527
3273	Manufacture of cement and concrete products	72	38	2	32
3274	Manufacture of lime, gypsum and plaster products	2	NS	NS	1
3279	Manufacture of other products made of non-metallic minerals	502	322	9	172
3311	Manufacture of basic iron and steel	3 280	226	21	3 033
3312	Manufacture of iron and steel products	549	286	14	248
3313	Basic aluminum industry	36	14	1	22
3314	Industries of nonferrous metals, except aluminum	1 200	598	10	593
3315	Die casting of metal parts	461	177	6	279
3321	Manufacture of forged and stamped metal products	60	38	2	21
3322	Manufacture of non-power hand tools and metal kitchen utensils	332	190	5	137
3323	Manufacture of metal structures and products blacksmith	591	383	10	198
3324	Manufacturing boilers, tanks and metal containers	888	614	14	260
3325	Manufacture of fittings and locks	2 454	1 900	16	538
3326	Manufacture of wire, wire products and springs	587	194	6	387
3327	Metalworking and manufacturing screws	97	72	2	23
3328	Coatings and metal finishing	65	47	2	16
3329	Manufacture of other fabricated metal products	4 084	2 337	78	1 669
3331	Manufacture of agricultural machinery and equipment, construction and mining	2 062	1 050	23	989

Branch	*Description*	*Gross Value Added*	*Total compensation of employees*	*Net Taxes of Subsidies on Production*	*Gross Operating Surplus*
		A = B + C + D	**B**	**C**	**D**
	and quarrying				
3332	Manufacture of machinery and equipment for manufacturing industries, except metalworking	364	132	4	227
3333	Manufacture of machinery and equipment for trade and services	217	200	5	13
3334	Manufacture of air conditioning, heating, and cooling for industry and commerce	370	221	7	142
3335	Manufacture of machinery and equipment for the metalworking industry	57	40	1	17
3336	Manufacture of internal combustion engines, turbines and transmissions	3 223	1 096	10	2 117
3339	Manufacture of other machinery and equipment for general industry	2 378	1 301	27	1 050
3341	Manufacture of computers and peripheral equipment	11 319	3 738	67	7 513
3342	Manufacture of communication equipment	10 872	8 835	105	1 932
3343	Manufacture of audio and video equipment	14 670	8 697	138	5 834
3344	Electronics Components Manufacturing	19 392	11 077	223	8 091
3345	Manufacture of measuring instruments, control, navigation, and electronic medical equipment	3 421	2 758	21	641
3346	Manufacturing and Reproducing Magnetic and Optical Media	759	598	15	146
3351	Manufacture of lighting fixtures	1 542	1 294	32	216
3352	Manufacture of electrical household appliances	3 353	1 516	44	1 793
3353	Manufacture of generation and distribution of electricity equipment	7 522	5 175	108	2 238
3359	Manufacture of other electrical equipment and fittings	5 672	3 490	57	2 125
3361	Manufacture of cars and trucks	76 109	7 304	421	68 384
3362	Manufacture of bodies and trailers	1 248	506	20	721
3363	Manufacture of motor vehicles parts	49 187	24 185	536	24 466
3364	Aerospace equipment manufacturing	1 309	1 049	15	245
3365	Manufacture of railway equipment	432	332	4	96
3366	Manufacture of ships	264	219	5	40
3369	Manufacture of other transport equipment	11	1	NS	9
3371	Manufacture of furniture, other than office and bookshelf	873	624	12	237
3372	Manufacture of office furniture and shelving	258	238	6	14

Branch	*Description*	*Gross Value Added*	*Total compensation of employees*	*Net Taxes of Subsidies on Production*	*Gross Operating Surplus*
		A = B + C + D	**B**	**C**	**D**
3379	Manufacture of mattresses, blinds and curtain rods	743	653	10	80
3391	Manufacture of non-electronic equipment and disposables medical, dental and laboratory use and ophthalmic articles	13 629	10 476	140	3 013
3399	Other manufacturing industries	5 034	3 650	57	1 327
4311	Commerce	74 661	NA	NA	74 661
4811	Scheduled air transport	293	NA	NA	293
4812	Non-scheduled air transport	59	NA	NA	59
4821	Railway Transport	1 591	NA	NA	1 591
4831	Maritime Transport	847	NA	NA	847
4832	Inland waterways transport	1	NA	NA	1
4841	Motor general freight	29 385	NA	NA	29 385
4851	Urban public transport and suburban passenger fixed route	NS	NA	NA	NS
4852	Foreign collective passenger transport fixed route	1	NA	NA	1
4853	Taxi and Limousine Service	NS	NA	NA	NS
4854	School and personnel transport	NS	NA	NA	NS
4855	Bus rental with driver	NS	NA	NA	NS
4859	Other passenger land transport	1	NA	NA	1
4862	Natural gas transmission pipeline	483	NA	NA	483
4869	Pipeline of other products	294	NA	NA	294
4871	Land Sightseeing Transportation	1	NA	NA	1
4872	Tourist Water Transport	NS	NA	NA	NS
4879	Another tourist transport	NS	NA	NA	NS
4881	Services related to air transport	NS	NA	NA	NS
4882	Services related to railway transport	NS	NA	NA	NS
4883	Services related to water transport	228	NA	NA	228
4884	Services related to road transport	5	NA	NA	5
4885	Intermediary services for freight transport	1 472	NA	NA	1 472
	TOTAL	282 230	122 713	2 764	156 753
	Trade and transport margins	109 322			266 075
	TOTAL	391 552			266 075

Conclusion

* Includes Trade and Transport Margins

Note:

NS = No significant. Number by rounding misses the minimum unit (<0.5) to register.

NA = Not applicable. No economic significance data.

ND = Unavailable. No existing data.

The sum may not add to totals due to rounding.

Source: INEGI. Global Manufacturing, Supplementary 2008 SUT

Table A.3
Jobs in Global Manufacturing, 2008
(Number of jobs)

Branch	*Description*	*Total Jobs*	*Jobs dependent on the firm*	*Paid jobs*	*Owners, family members and other unpaid workers*	*Personnel not dependent on the company*
		A = P + C	**B = D + E**	**D**	**E**	**C**
3111	Production of animal feed	8	4	4	0	4
3112	Grains and seeds mills and oils and fats obtaining	28	19	16	3	9
3113	Production of sugar, chocolate, candies and similar	4 471	3 401	3 401	0	1 070
3114	Canned fruits, vegetables and prepared foods	2 037	1 940	1 939	1	97
3115	Manufacture of dairy products	3	1	1	0	2
3116	Slaughter, packaging and processing of meat from cattle, poultry and other food animals	596	595	595	0	1
3117	Preparation and packaging of seafood	578	578	578	0	0
3118	Manufacture of bakery and tortillas	2	2	2	0	0
3119	Other food industries	1 459	1 206	1 205	1	253
3121	Beverage Industry	1 208	1 030	1 030	0	178
3122	Tobacco Industry	1 176	562	562	0	614
3131	Preparation and spinning of textile fibers, yarns and manufacturing	3 428	2 486	2 474	12	942
3132	Textile manufacturing	1 484	1 291	1 281	10	193
3133	Finishing of textiles and coated fabrics manufacturing	4 840	4 337	4 336	1	503
3141	Manufacture of carpets, white and similar	3 300	2 808	2 808	0	492
3149	Manufacture of other textiles, except apparel	8 554	7 980	7 415	565	574
3151	Manufacture of knitted garments	7 421	7 420	7 420	0	1
3152	Manufacture of wearing apparel	65 426	59 188	59 188	0	6 238
3159	Manufacture of clothing accessories and other apparel not elsewhere classified	537	537	537	0	0
3161	Tanning and dressing of leather and fur	1 278	449	449	0	829
3162	Manufacture of footwear	894	894	894	0	0
3169	Manufacture of other products of leather, leather and substitutes materials	2 907	2 831	2 831	0	76
3211	Sawing and wood preservation	17	17	17	0	0

Branch	*Description*	*Total Jobs*	*Jobs dependent on the firm*	*Paid jobs*	*Owners, family members and other unpaid workers*	*Personnel not dependent on the company*
		A = B + C	**B = D + E**	**D**	**E**	**C**
3212	Manufacture of wood laminated and bonded	21	19	19	0	2
3219	Manufacture of other products of wood	2 088	2 002	1 997	5	86
3221	Manufacture of pulp, paper and paperboard	423	344	342	2	79
3222	Manufacture of paper and paperboard	6 063	4 514	4 500	14	1 549
3231	Printing and related industries	5 313	3 632	3 622	10	1 681
3241	Manufacture of petroleum and coal products	6	4	4	0	2
3251	Manufacture of basic chemical products	2 009	1 609	1 600	9	400
3252	Manufacture of synthetic resins and rubbers, and fibers	1 567	1 296	1 295	1	271
3253	Manufacture of fertilizers, pesticides and other agrochemicals	424	318	318	0	106
3254	Pharmaceutical Manufacturing	2 146	1 328	1 323	5	818
3255	Manufacture of paints, coatings and adhesives	297	201	200	1	96
3256	Manufacture of soaps, cleaners, and toilet preparations	968	928	925	3	40
3259	Manufacture of other chemicals	1 903	1 694	1 665	29	209
3261	Manufacture of plastic products	25 222	21 355	21 330	25	3 867
3262	Manufacture of rubber products	6 263	4 734	4 730	4	1 529
3271	Manufacture of products based on clays and refractory minerals	11 440	9 842	9 829	13	1 598
3272	Manufacture of glass and glass products	3 738	3 076	3 071	5	662
3273	Manufacture of cement and concrete products	269	264	258	6	5
3274	Manufacture of lime, gypsum and plaster products	9	7	4	3	2
3279	Manufacture of other products made of non-metallic minerals	3 647	3 523	3 456	67	124
3311	Manufacture of basic iron and steel	1 361	831	831	0	530
3312	Manufacture of iron and steel products	2 447	2 006	2 006	0	441
3313	Basic aluminum industry	1 158	125	125	0	1 033
3314	Industries of nonferrous	5 915	4 388	4 386	2	1 527

Branch	*Description*	*Total Jobs*	*Jobs dependent on the firm*	*Paid jobs*	*Owners, family members and other unpaid workers*	*Personnel not dependent on the company*
		A = B + C	**B = D + E**	**D**	**E**	**C**
	metals, except aluminum					
3315	Die casting of metal parts	1 821	1 465	1 461	4	356
3321	Manufacture of forged and stamped metal products	325	321	321	0	4
3322	Manufacture of non-power hand tools and metal kitchen utensils	4 079	1 688	1 687	1	2 391
3323	Manufacture of metal structures and products blacksmith	3 899	3 678	3 663	15	221
3324	Manufacturing boilers, tanks and metal containers	3 439	3 425	3 425	0	14
3325	Manufacture of fittings and locks	14 716	14 571	14 555	16	145
3326	Manufacture of wire, wire products and springs	1 737	1 675	1 666	9	62
3327	Metalworking and manufacturing screws	785	603	595	8	182
3328	Coatings and metal finishing	457	447	447	0	10
3329	Manufacture of other fabricated metal products	19 322	15 438	15 433	5	3 884
3331	Manufacture of agricultural machinery and equipment, construction and mining and quarrying	10 328	8 341	8 338	3	1 987
3332	Manufacture of machinery and equipment for manufacturing industries, except metalworking	1 273	1 168	1 154	14	105
3333	Manufacture of machinery and equipment for trade and services	1 554	1 548	1 548	0	6
3334	Manufacture of air conditioning, heating, and cooling for industry and commerce	2 732	2 311	2 311	0	421
3335	Manufacture of machinery and equipment for the metalworking industry	324	311	309	2	13
3336	Manufacture of internal combustion engines, turbines and transmissions	9 081	8 767	8 766	1	314
3339	Manufacture of other machinery and equipment for general industry	9 084	8 851	8 839	12	233
3341	Manufacture of computers and peripheral equipment	51 760	30 424	30 424	0	21 336
3342	Manufacture of communication equipment	79 667	71 258	71 256	2	8 409
3343	Manufacture of audio and video equipment	53 144	51 719	51 719	0	1 425
3344	Electronics Components	112 980	96 884	96 839	45	16 096

Branch	*Description*	*Total Jobs*	*Jobs dependent on the firm*	*Paid jobs*	*Owners, family members and other unpaid workers*	*Personnel not dependent on the company*
		A = B + C	**B = D + E**	**D**	**E**	**C**
	Manufacturing					
3345	Manufacture of measuring instruments, control, navigation, and electronic medical equipment	21 559	21 223	21 219	4	336
3346	Manufacturing and Reproducing Magnetic and Optical Media	4 102	3 550	3 550	0	552
3351	Manufacture of lighting fixtures	11 255	10 955	10 953	2	300
3352	Manufacture of electrical household appliances	15 735	13 661	13 661	0	2 074
3353	Manufacture of generation and distribution of electricity equipment	45 202	40 679	40 674	5	4 523
3359	Manufacture of other electrical equipment and fittings	33 766	28 787	28 777	10	4 979
3361	Manufacture of cars and trucks	28 951	25 948	25 943	5	3 003
3362	Manufacture of bodies and trailers	5 297	4 656	4 612	44	641
3363	Manufacture of motor vehicles parts	230 132	200 802	200 739	63	29 330
3364	Aerospace equipment manufacturing	9 439	8 984	8 984	0	455
3365	Manufacture of railway equipment	2 495	1 443	1 443	0	1 052
3366	Manufacture of ships	1 780	1 742	1 742	0	38
3369	Manufacture of other transport equipment	12	11	11	0	1
3371	Manufacture of furniture, other than office and bookshelf	6 991	6 585	6 539	46	406
3372	Manufacture of office furniture and shelving	2 019	1 973	1 973	0	46
3379	Manufacture of mattresses, blinds and curtain rods	7 953	7 927	7 927	0	26
3391	Manufacture of non-electronic equipment and disposables medical, dental and laboratory use, and ophthalmic articles	89 943	87 847	87 810	37	2 096
3399	Other manufacturing industries	40 124	39 019	38 590	429	1 105
4311	Commerce	NA	NA	NA	NA	NA
4811	Scheduled air transport	NA	NA	NA	NA	NA
4812	Non-scheduled air transport	NA	NA	NA	NA	NA
4821	Railway Transport	NA	NA	NA	NA	NA
4831	Maritime Transport	NA	NA	NA	NA	NA

Branch	*Description*	*Total Jobs*	*Jobs dependent on the firm*	*Paid jobs*	*Owners, family members and other unpaid workers*	*Personnel not dependent on the company*
		A = B + C	**B = D + E**	**D**	**E**	**C**
4832	Inland waterways transport	NA	NA	NA	NA	NA
4841	Motor general freight	NA	NA	NA	NA	NA
4851	Urban public transport and suburban passenger fixed route	NA	NA	NA	NA	NA
4852	Foreign collective passenger transport fixed route	NA	NA	NA	NA	NA
4853	Taxi and Limousine Service	NA	NA	NA	NA	NA
4854	School and personnel transport	NA	NA	NA	NA	NA
4855	Bus rental with driver	NA	NA	NA	NA	NA
4859	Other passenger land transport	NA	NA	NA	NA	NA
4862	Natural gas transmission pipeline	NA	NA	NA	NA	NA
4869	Pipeline of other products	NA	NA	NA	NA	NA
4871	Land Sightseeing Transportation	NA	NA	NA	NA	NA
4872	Tourist Water Transport	NA	NA	NA	NA	NA
4879	Another tourist transport	NA	NA	NA	NA	NA
4881	Services related to air transport	NA	NA	NA	NA	NA
4882	Services related to railway transport	NA	NA	NA	NA	NA
4883	Services related to water transport	NA	NA	NA	NA	NA
4884	Services related to road transport	NA	NA	NA	NA	NA
4885	Intermediary services for freight transport	NA	NA	NA	NA	NA
	TOTAL	**1 135 611**	**998 301**	**996 722**	**1 579**	**137 310**

Conclusion

Note:

NS = No significant. Number by rounding misses the minimum unit (<0.5) to register.

NA = Not applicable. No economic significance data.

ND = Unavailable. No existing data.

The sum may not add to totals due to rounding.

Source: INEGI. Global Manufacturing, Supplementary 2008 SUT

Table A4

Global Manufacturing Indicators, 2008

(Percentages)

Branch	Description	$VACGME_i / VACGME_T$ (%)	VACGME / GMP (%)	VACGME / Manufacturing Production (%)
3111	Production of animal feed	NS	68.1	NS
3112	Grains and seeds mills and oils and fats obtaining	NS	49.1	NS
3113	Production of sugar, chocolate, candies and similar	NS	29.6	1.9
3114	Canned fruits, vegetables and prepared foods	NS	57.5	1.5
3115	Manufacture of dairy products	NS	95.8	NS
3116	Slaughter, packaging and processing of meat from cattle, poultry and other food animals	NS	15.0	NS
3117	Preparation and packaging of seafood	NS	26.6	1.7
3118	Manufacture of bakery and tortillas	NS	40.1	NS
3119	Other food industries	NS	30.8	1.2
3121	Beverage Industry	NS	33.4	NS
3122	Tobacco Industry	NS	21.8	3.6
3131	Preparation and spinning of textile fibers, yarns and manufacturing	NS	55.1	11.5
3132	Textile manufacturing	NS	47.3	2.5
3133	Finishing of textiles and coated fabrics manufacturing	NS	30.3	12.0
3141	Manufacture of carpets, whit_ and similar	NS	35.1	5.1
3149	Manufacture of other textiles, except apparel	NS	48.8	9.6
3151	Manufacture of knitted garments	NS	38.6	8.5
3152	Manufacture of wearing apparel	1.7	35.7	10.9
3159	Manufacture of clothing accessories and other apparel not elsewhere classified	NS	16.2	3.2
3161	Tanning and dressing of leather and fur	NS	26.6	2.1
3162	Manufacture of footwear	NS	37.2	0.8
3169	Manufacture of other products of leather, leather and substitutes materials	NS	36.9	11.4
3211	Sawing and wood preservation	NS	60.7	NS
3212	Manufacture of wood laminated and bonded	NS	18.6	NS
3219	Manufacture of other products of wood	NS	41.8	2.6
3221	Manufacture of pulp, paper and paperboard	NS	70.5	1.2
3222	Manufacture of paper and paperboard	NS	26.0	2.0
3231	Printing and related industries	NS	32.5	2.3
3241	Manufacture of petroleum and coal products	NS	91.5	NS
3251	Manufacture of basic chemical products	0.8	60.1	1.3
3252	Manufacture of synthetic resins and rubbers, and fibers	0.5	59.3	4.6
3253	Manufacture of fertilizers, pesticides and other agrochemicals	NS	38.1	1.3
3254	Pharmaceutical Manufacturing	NS	15.4	1.1
3255	Manufacture of paints, coatings and adhesives	NS	63.6	1.1
3256	Manufacture of soaps, cleaners, and toilet preparations	NS	62.1	1.5
3259	Manufacture of other chemicals	NS	67.9	7.5

Branch	Description	$VACGME_i$ / $VACGME_T$ (%)	VACGME / GMP (%)	VACGME / Manufacturing Production (%)
3261	Manufacture of plastic products	1.0	29.8	4.2
3262	Manufacture of rubber products	NS	36.4	8.9
3271	Manufacture of products based on clays and refractory minerals	0.7	72.3	7.3
3272	Manufacture of glass and glass products	NS	67.8	4.5
3273	Manufacture of cement and concrete products	NS	22.3	NS
3274	Manufacture of lime, gypsum and plaster products	NS	96.3	NS
3279	Manufacture of other products made of non-metallic minerals	NS	64.3	7.4
3311	Manufacture of basic iron and steel	1.1	76.5	4.6
3312	Manufacture of iron and steel products	NS	33.6	1.4
3313	Basic aluminum industry	NS	72.0	2.5
3314	Industries of nonferrous metals, except aluminum	0.6	29.1	3.5
3315	Die casting of metal parts	NS	55.8	6.7
3321	Manufacture of forged and stamped metal products	NS	11.8	0.8
3322	Manufacture of non-power hand tools and metal kitchen utensils	NS	44.2	9.1
3323	Manufacture of metal structures and products blacksmith	NS	57.4	3.1
3324	Manufacturing boilers, tanks and metal containers	NS	33.5	5.3
3325	Manufacture of fittings and locks	0.6	39.9	31.1
3326	Manufacture of wire, wire products and springs	NS	79.6	7.1
3327	Metalworking and manufacturing screws	NS	68.8	1.5
3328	Coatings and metal finishing	NS	11.4	NS
3329	Manufacture of other fabricated metal products	1.1	30.5	14.1
3331	Manufacture of agricultural machinery and equipment, construction and mining and quarrying	0.7	44.0	14.4
3332	Manufacture of machinery and equipment for manufacturing industries, except metalworking	NS	33.4	5.1
3333	Manufacture of machinery and equipment for trade and services	NS	42.2	12.3
3334	Manufacture of air conditioning, heating, and cooling for industry and commerce	NS	43.2	2.2
3335	Manufacture of machinery and equipment for the metalworking industry	NS	66.7	3.4
3336	Manufacture of internal combustion engines, turbines and transmissions	0.9	52.9	13.9
3339	Manufacture of other machinery and equipment for general industry	0.6	40.4	13.1
3341	Manufacture of computers and peripheral equipment	3.2	17.7	14.0
3342	Manufacture of communication equipment	2.3	12.1	11.2
3343	Manufacture of audio and video equipment	2.8	11.1	10.7
3344	Electronics Components Manufacturing	8.7	26.9	26.3
3345	Manufacture of measuring instruments, control, navigation, and electronic medical equipment	0.7	29.0	16.9
3346	Manufacturing and Reproducing Magnetic and Optical Media	NS	13.8	9.6
3351	Manufacture of lighting fixtures	0.5	33.2	19.9
3352	Manufacture of electrical household appliances	1.0	23.2	9.1

Branch	Description	$VACGME_i$ / $VACGME_T$ (%)	VACGME / GMP (%)	VACGME / Manufacturing Production (%)
3353	Manufacture of generation and distribution of electricity equipment	2.2	36.8	19.9
3359	Manufacture of other electrical equipment and fittings	1.4	27.0	11.7
3361	Manufacture of cars and trucks	25.1	65.8	40.8
3362	Manufacture of bodies and trailers	NS	39.2	14.7
3363	Manufacture of motor vehicles parts	14.2	33.4	20.2
3364	Aerospace equipment manufacturing	NS	29.6	10.9
3365	Manufacture of railway equipment	NS	43.5	6.4
3366	Manufacture of ships	NS	39.8	17.4
3369	Manufacture of other transport equipment	NS	14.3	0.8
3371	Manufacture of furniture, other than office and bookshelf	NS	46.1	3.4
3372	Manufacture of office furniture and shelving	NS	47.9	9.0
3379	Manufacture of mattresses, blinds and curtain rods	NS	36.7	13.3
3391	Manufacture of non-electronic equipment and disposables medical, dental and laboratory use, and ophthalmic articles	2.8	29.9	25.7
3399	Other manufacturing industries	1.3	26.3	11.4
4311	Commerce	10.9	NA	NA
4811	Scheduled air transport	NS	NA	NA
4812	Non-scheduled air transport	NS	NA	NA
4821	Railway Transport	NS	NA	NA
4831	Maritime Transport	NS	NA	NA
4832	Inland waterways transport	NS	NA	NA
4841	Motor general freight	4.3	NA	NA
4851	Urban public transport and suburban passenger fixed route	NS	NA	NA
4852	Foreign collective passenger transport fixed route	NS	NA	NA
4853	Taxi and Limousine Service	NS	NA	NA
4854	School and personnel transport	NS	NA	NA
4855	Bus rental with driver	NS	NA	NA
4859	Other passenger land transport	NS	NA	NA
4862	Natural gas transmission pipeline	NS	NA	NA
4869	Pipeline of other products	NS	NA	NA
4871	Land Sightseeing Transportation	NS	NA	NA
4872	Tourist Water Transport	NS	NA	NA
4879	Another tourist transport	NS	NA	NA
4881	Services related to air transport	NS	NA	NA
4882	Services related to railway transport	NS	NA	NA
4883	Services related to water transport	NS	NA	NA
4884	Services related to road transport	NS	NA	NA
4885	Intermediary services for freight transport	NS	NA	NA
	TOTAL	**100.0**	**36.9**	**9.8**

Conclusion

Note:

NS = No significant. Number by rounding misses the minimum unit (<0.5) to register.

NA = Not applicable. No economic significance data.

ND = Unavailable. No existing data.

Source: INEGI. Global Manufacturing, Supplementary 2008 SUT

Annex II.

Glossary

Economic Activity. The fields of specific action in which economic units are engage for producing goods and services to satisfy the needs of the institutional units.

Exports. The value of sales exchanges or grants of goods and services; from residents to non-residents. These transactions are considered only those goods that were produced or that includes any productive process performed by residents; while in services, should include transport and insurance that residents within the import transactions.

Global manufacturing. Is all economic activities carried out by undertakings whose inputs come mainly from abroad, its production is intended for the most part, or all, export. They are companies that have majority ownership of foreign capital that can be controlled by foreign parent companies and/or be obeying the interests of global value chains.

Global Value Chain. The set of interrelated activities engaged in a production process having place in more than one country where each one adds a fraction of producing goods Value Added.

Goods. Physical objects on which is feasible to establish property rights also could be used for producing other goods and services to satisfy society's needs and available for storage and merchandising several times.

Gross Operating Surplus. A measure of the surplus accrued from the processes of production before deducting any expenses, explicit or implicit, in concept of interests and income or other income of the property payable by financial assets, land and land or other natural resources needed to carry out the production process.

Gross Value Added. Is the value added to goods and services, during the production process. It is the difference between the gross value of production and the value of intermediate consumption.

Imports. Are goods and services introduced a country through the International Commerce.

Imposed on products. These are mandatory payments without consideration, which can be monetary or in kind, and that institutional units make the Government by performing in the market the goods or services produced.

Input-output matrix. A set of pictures that reflect and update the formal relations that carry out various sectors and economic agents involved in all phases of the economic cycle (production, marketing, consumption and accumulation).

Intermediate Consumption. The value goods and services used as inputs in the productive processes. Excluding fixed assets because their consumption is recorded in the Value Added as capital consumption. Emphasizing that these goods could be fully transformed or consumed in the processing or reappear in the production sphere as inputs to conclude that stage.

Main Activity. Those that their Value Added exceeds that of any other within the same unit (the production of the main activity has to be in goods and services supplied to other units, despite that could be used for self-consumption or for own capital formation.

Manufacturing Industry. Is the set of economic units that combines resources under a single owner or controlled by self or others (maquila) activities of assembling, processing

either total or partial transformation of raw materials resulting in the production of new goods and services in a single location, bounded by buildings and facilities.

Production Accounts. Accounting arrangements showing the way how income is generated, distributed and used in the economy. Integrating Production, Intermediate Consumption and Value Added.

Production value. The value of the goods he transformed, processed or benefited by the economic unit during a time period. Is the value of the processed products and the value of the production of fixed assets for own use.

Products subsidies. Is the sum of money that the Government delivers to the producer, to reduce the price paid by the consumers thereof. A subsidy on a product is required, normally, when occurs, sells or imports the goods or service, but also be paid in other circumstances, for example, when good is transferred, leased, supplied or used for personal consumption or own capital formation.

The North American Industrial Classification System (NAICS). Economic activities classificatory for the region of North-American. NAICS contains agreed categories of trilaterally by United States (USA).UU.), Canada and Mexico, and other national detail. It is composed of five levels of aggregation: sector, sub-sector, branch, sub-branch and kind of activity, identified with two, three, four, five and six digits, respectively. The sector is the most general level; the class, the more disaggregated. NAICS 2007 contains 20 sectors, subsectors 94, 304 branches, 617 sub-branches and 1,049 kinds of economic activity. Activities economic classified in it is grouped in a traditional way in three large groups: primary, secondary and tertiary activities.

Value Added Content of Global Manufacturing Exports. The real value added by an economy to exported goods which are a part of a global manufacturing process satisfying the requirements of the GVC. At total economy level could be measured with two methods.